Ontario

Ministry of Natural Resources

Hon. Michael Harris
Minister

Mary Mogford
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

GEOLOGICAL DATA INVENTORY FOLIO

GDIF 253

HUGEL TOWNSHIP

DISTRICT OF NIPISSING

Compiled by the Staff of
the Resident Geologist's Office
Sudbury

LOCATION MAP

Scale 1:1 013 760 or 1 inch to 16 miles

86-1437/

NTS Number 41 I/ 8,9

Mining Claim Map Number M 941

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1985: Hugel Township, District of Nipissing; Ontario Geological Survey, Geological Data Inventory Folio 253, compiled by the staff of the Resident Geologist's Office, Sudbury, 16p. and 2 maps.

Original Compilation by: de Gagne, Ronn March 22, 1985

Date	Page Revised	Revised by

Date	Page Revised	Revised by

HUGEL TOWNSHIP

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ACCOMPANYING MAPS

Property Location Map - 1 map

Exploration Data Map - 1 map

Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
		LENGTH			
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
		AREA			
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
		VOLUME			
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
		CAPACITY			
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
		MASS			
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
		CONCENTRATION			
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	R.D.
2	Assessment Files Research Office, Toronto	N.A.	R.D.
3	ODM General Index; 9 Volumes	Yes	R.D.
4	Catalogue of Airborne Geophysical Surveys (ODM)	No	R.D.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	No	R.D.
6	ODM Industrial Mineral Reports	Yes	R.D.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	R.D.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	Yes	R.D.
9	Newspaper Clippings File	No	R.D.
10	GSC Index to Publications	Yes	R.D.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	R.D.
12	OGS Index Maps	Yes	R.D.
13	Source Mineral Deposit Records (O.G.S.) Mineral Occurrence File	Yes	R.D.
14	Author - Subject Articles File	Yes	R.D.
15	Miscellaneous Papers: ODM & OGS	Yes	R.D.
16	ODM Geological Circulars: OGS Study Series	Yes	R.D.
17	ODM Preliminary Reports: ODM Bulletins	Yes	R.D.
18	ODM – OGS Open File Reports	Yes	R.D.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	R.D.
20	OGS Aggregate Resources Inventory Papers	No	R.D.
21	OGS Mineral Potential Maps	Yes	R.D.
22	Theses on File, Sudbury	Yes	R.D.
23	Aerial Photographs on File, Sudbury	No	R.D.

METALS AND MINERALS REFERENCES LIST

- △ anh. . . . . Anhydrite
- △ ank. . . . . Ankerite
- △ anna. . . . . Annabergite
- △ ap. . . . . Apatite
- △ arg . . . . . Argentite
- △ As . . . . . Arsenic
- △ asp . . . . . Arsenopyrite
- △ asb . . . . . Asbestos
- △ ba. . . . . Barite
- △ be. . . . . Beryl
- △ Bi. . . . . Bismuth
- △ bn . . . . . Bornite
- △ bran . . . . . Brannerite
- △ bruc . . . . . Brucite
- △ Cd . . . . . Cadmium
- △ calc. . . . . Calcite
- △ carb . . . . . Carbonate
- △ cel . . . . . Celestite
- △ cc. . . . . Chalcocite
- △ cp. . . . . Chalcopyrite
- △ ch. . . . . Chert
- △ clay . . . . . Clay
- △ Co . . . . . Cobalt
- △ cob. . . . . Cobaltite
- △ cb. . . . . Columbite
- △ Cu . . . . . Copper
- △ cor . . . . . Corundum
- △ dol . . . . . Dolomite
- △ ep. . . . . Epidote
- △ ery . . . . . Erythrite
- ▲ fel . . . . . Feldspar
- △ fl . . . . . Fluorite (flurospar)
- △ fu. . . . . Fuchsite
- △ gn. . . . . Galena
- △ gt . . . . . Garnet
- △ goe . . . . . Goethite
- △ Au . . . . . Gold
- △ gf . . . . . Graphite
- △ gl . . . . . Gravel
- △ gyp. . . . . Gypsum
- △ hem . . . . . Hematite
- △ il . . . . . Ilmenite
- △ Fe . . . . . Iron
- △ IF. . . . . Iron Formation
- △ jas . . . . . Jasper
- △ kaol . . . . . Kaolinite (kaolin)
- △ ky . . . . . Kyanite
- △ Pb . . . . . Lead
- △ lim . . . . . Limonite
- △ Li. . . . . Lithium
- △ mgst . . . . . Magnesite
- △ mag . . . . . Magnetite
- △ mc . . . . . Malachite
- △ Mn . . . . . Manganese
- △ mb . . . . . Marble
- △ mar. . . . . Marcasite
- △ ma . . . . . Marl
- △ mi . . . . . Mica
- △ ml . . . . . Millerite
- △ mo . . . . . Molybdenite
- △ Mo . . . . . Molybdenum
- △ mon . . . . . Monazite
- △ ne. . . . . Nephelite (nepheline)
- △ nc. . . . . Niccolite
- △ Ni. . . . . Nickel
- △ Nb . . . . . Niobium
- △ Pd . . . . . Palladium
- △ peat . . . . . Peat
- △ pent . . . . . Pentlandite
- △ Pt. . . . . Platinum
- △ py . . . . . Pyrite
- △ pyl . . . . . Pyrochlore
- △ pyrl . . . . . Pyrolusite
- △ po . . . . . Pyrrhotite
- △ q . . . . . Quartz
- △ qcv . . . . . Quartz carbonate vein
- △ ra. . . . . Radioactive minerals
- △ RE . . . . . Rare Earths
- △ sd. . . . . Sand
- ▲ sgl . . . . . Sand and gravel
- △ ss . . . . . Sandstone
- △ scap . . . . . Scapolite
- △ shee . . . . . Scheelite
- △ serp . . . . . Serpentine
- △ sh. . . . . Shale
- △ sid . . . . . Siderite
- △ si . . . . . Silica
- △ Ag . . . . . Silver
- △ sl . . . . . Slate
- △ sm . . . . . Smaltite
- △ sod. . . . . Sodalite
- △ spec . . . . . Specularite
- △ sp. . . . . Sphalerite
- △ spd. . . . . Spodumene
- △ staur . . . . . Staurolite
- △ stib. . . . . Stibnite
- △ st . . . . . Stone
- △ talc. . . . . Talc
- △ Te . . . . . Tellurium
- △ td. . . . . Tetrahedrite
- △ th. . . . . Thorite
- △ Th . . . . . Thorium
- △ thuc . . . . . Thucholite
- △ ti . . . . . Titanite
- △ Ti. . . . . Titanium
- △ tour . . . . . Tourmaline
- △ trap . . . . . Trap rock
- △ W. . . . . Tungsten
- △ uran . . . . . Uraninite
- △ U . . . . . Uranium
- △ verm . . . . . Vermiculite
- △ Y . . . . . Yttrium
- △ Zn . . . . . Zinc
- △ zr . . . . . Zircon

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Larcher Feldspar Occurrence Lot 12, Con.2	fel			O.D.M. Map P.681 O.D.M. Map P.2271
B	Hugel Twp., Sand-Gravel Occurrence Lot 12, Con.4	sgl			O.D.M. Map P.2271
C	Carmichael Feldspar Mine Lot 12, Con.2 Lat.46°28'25" Long.80°17'45"	fel (northern pinkstone)			OFR5329

GDIF FORM NO. 1

BUGEL TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	QUARRYING	MINERAL ANALYSIS (X-RAY DIFFRACTION)	TOPOGRAPHIC SURVEY
1	Beaucage Mines Ltd.	56																		
2	Erana Mines Ltd. (Consolidated Feldspar Ltd.) (Carmichael Feldspar Mine)																	75-77[1] 50-60[2]		
3	Warren Industrial Feldspar Inc. (Geotek Exploration & Prospecting)	80				81													81	81
	[1] extraction of feldspar by Erana Mines Ltd. [2] extraction of feldspar by Consolidated Feldspar Ltd.																			

GDIF FORM NO. 2

HUGEL TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing

GDIF FORM NO. 4

HUGEL TOWNSHIP

GEOCHEMICAL SURVEY DATA

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Sudbury

GDIF FORM NO. 7

HUGEL TOWNSHIP

ODM GENERAL INDEX SEARCH

Words searched:
BEAUCAGE MINES LTD.
CARMICHAEL FELDSPAR MINE
CARMICHAEL PROPERTY
CONSOLIDATED FELDSPAR MINES LTD.
ERANA MINES LTD.
FELDSPAR
GEOTEK EXPLORATION AND PROSPECTING INC.
HUGEL TOWNSHIP
INDUSTRIAL GARNET CO.
LARCHER, C.
NORTHERN PINKSTONE
RIDEAU AGGREGATE CO.
WARREN INDUSTRIAL FELDSPAR INC.
WIEMER, H.

Index Volume	Listing:		Report Volume	Part	Page
5	BEAUCAGE MINES LTD.				
	Capital; officers; operations		64	2	119
	Incorporated		63	1	56
6	BEAUCAGE MINES LTD.				
	Capital; officers; operations	(1955)	65	2	121
		(1956)	66	2	120
		(1957)	67	2	125
	Name changed to Nova Beaucage		69	2	92
8	CARMICHAEL FELDSPAR MINE				
	Mining report on property, Hugel Twp.		GR116		140
9	CARMICHAEL PROPERTY				
	Hugel Township, Nipissing Dist.		MP82		200
3	CONSOLIDATED FELDSPAR LTD.				
	Feldspar mining, Ratter Twp.		37	1	29
	Incorporated		36	1	57
8	CONSOLIDATED FELDSPAR LTD.				
	Report on Mining property, Ratter Twp.		GR116		139
8	ERANA MINES LTD.				
	Hugal Twp., Nipissing Dist.		GR116		140
8	FELDSPAR				
	North Bay area, Nipissing and Parry Sound Dist.		GR94		68,69 88-90
1	HUGEL TOWNSHIP				
	Gold in Hugel Twp.		20	1	53
8	HUGEL TOWNSHIP				
	Feldspar		MP11		76
	Feldspar/mica		GR116		140
	Geology of the Burwash area		GR116		
7	INDUSTRIAL GARNET CO. LTD.				
	Capital; officers; operations	(1961)	71		146
		(1962)	72		155
	Name changed		73		160
	Operations	(1960)	70		139

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
8	RIDEAU AGGREGATE CO. Portland Twp., Frontenac County	IMR21		23
7	WIEMER, H. of Industrial Garnet Co.	71		146
		72		155
	of Stonefields Industrial Minerals	73		160

GDIF FORM NO. 8

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Card, K. D. and Lumbers, S. B.	1974-75	Sudbury-Cobalt Sheet (Revised)	O.G.S. Map 2361	1"=4 miles
Lumbers, S. B.	1970	Burwash Area, East Half	O.D.M. Map P.681	1"=1 mile
	1966	Burwash Sheet	O.D.M. P.415	1"=2 miles
	1972	River Valley Area Districts of Sudbury and	O.D.M. Map P.844	1"=1 mile
Meyn, H. D.	1966	Capreol Sheet	O.D.M. Map P.367	1"=2 miles
		GEOPHYSICAL MAPS		
Gupta, V. K. and Wadge, D. R.	1980	Bouguer Gravity and Generalized Geology of the North Bay-Marten River Districts of Sudbury and Nipissing	O.G.S. Map P.2297	1:100 000
O.D.M.-G.S.C.	1965	Aeromagnetic Map - Glen A ton Sheet	Map 1501G	1"=1 mile
	1965	Aeromagnetic Map - Sudbury, Ontario	Map 7067G	1"=4 miles
	1965	Aeromagnetic Map - Verner, Ontario	Map 1500G	1"=1 mile
	1978	Uranium Reconnaissance Program Airborne Gamma Ray Spectrometer Survey Sudbury Sheet	Map P.1610	1:250 000
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
Dept. of Energy, Mines and Resources	1975	Topographic Maps - Glen Afton Sheet - Verner Sheet		1:50 000 1:50 000

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Gartner, J. F.	1980	N.O.E.G.T. Study 95, Capreol N.O.E.G.T. Study 100, Sudbury N.O.E.G.T.S. Data Base Map, Capreol N.O.E.G.T.S. Data Base Map. Sudbury	 Map 5001 Map 5003	 1:100 000 1:100 000
		MINERAL POTENTIAL MAPS		
O.G.S. and Mineral Resources Bank	1982	Mineral Potential Map of Ontario East of Ontario	OFR5327	1"=16 miles
O.G.S.	1977	Molybdenum Deposits of Ontario East Central Sheet	O.G.S. Map P.1246	1"=16 miles
Springer, J.	1976	Ontario Mineral Potential Sudbury Sheet	O.G.S. Map P.1511	1:250 000
		GEOCHEMICAL		
		None as of March 22, 1985		
		GEOLOGICAL REPORTS AND MAPS		
Hewitt, D. F.	1952	Feldspar in Ontario	O.D.M. IMC3	
	1976	Pegmatite Mineral Resource of Ontario	O.D.M. IMR21	
	1963	Silica in Ontario	O.D.M. IMR9	
Lumbers, S. B.	1975	Geology of the Burwash Area	O.D.M. GR116	1"=2 miles
Milne, V. G., White, O. L., Barlow, R. B. and Robertson, J. A.	1978	Summary of Field Work, 1978	O.G.S. MP82	p.200

GDIF FORM NO.9

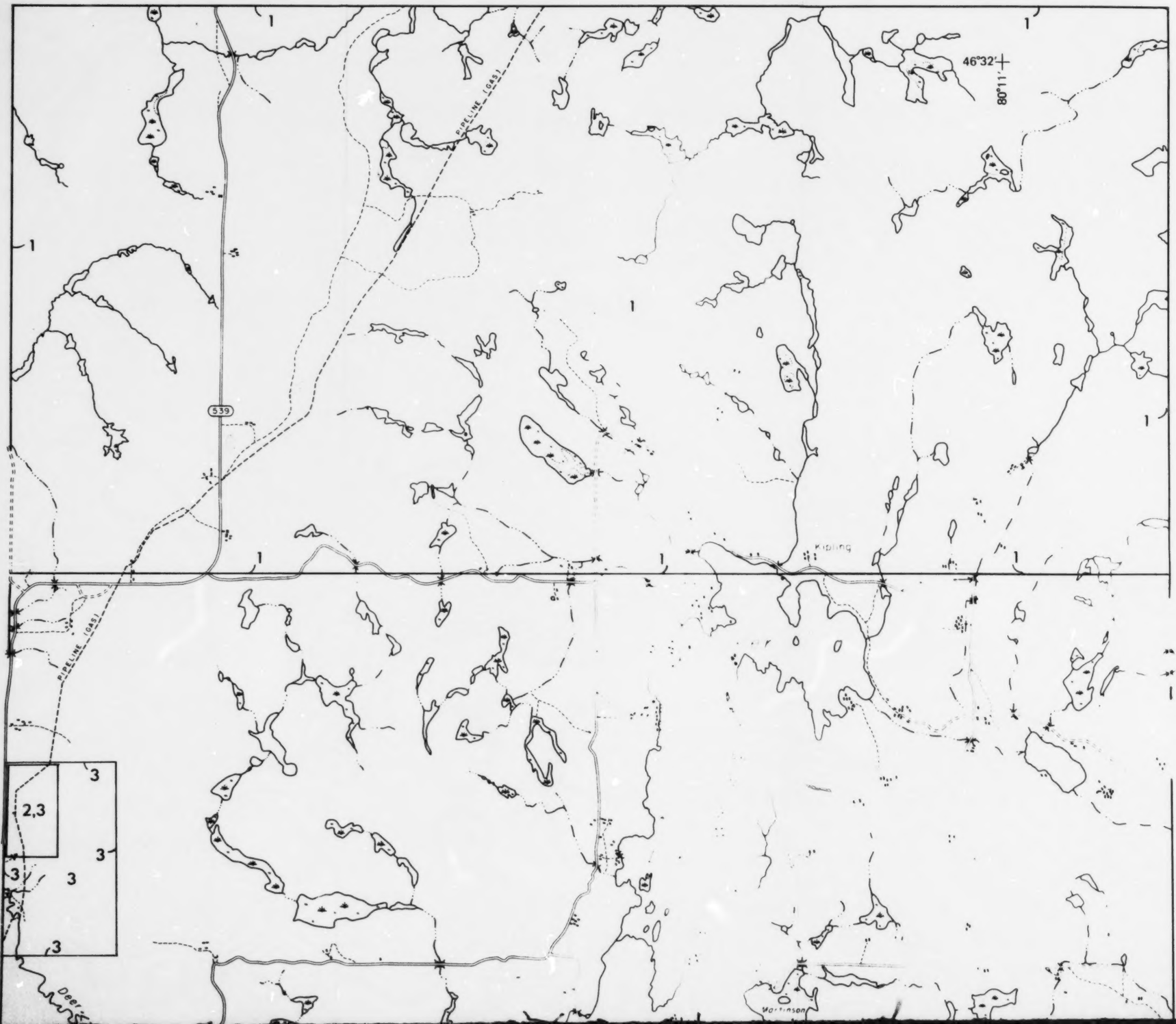
SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Thomson, J. E.	1960	Uranium and Thorium Deposits at the Base of the Huronian System in the District of Sudbury	O.D.M. GR1 Chart A	1"=6 miles
Vos, M. A., Smith, B, H., and Stevenato, R. J.	1981	Industrial Minerals of the Sudbury Area	OFR5329	p.93
		JOURNAL ARTICLES, THESES, TECHNICAL REPORTS		
Davis, G. L.	?	Geochronology and Geochemistry of the Grenville Province	Sudbury File 3-4	p.224-230
Davis, G. L. et al	?	The Age of Metamorphism in the Grenville Province and the Age of the Grenville Front	Sudbury File 3-4	p.307-315
Henderson, J. R.	1967	Structural and Petrographic Relations across the Grenville, Southern Province Boundary. Ph.D., McM	Sudbury Theses File No.27	
Latour, T. E.	1981	Significance of Folds and Mylonites at the Grenville Front in Ontario (Summary)	G.S.A. Bull., Vol.92, pt.1	p.411-413
Laurin, A.	1955	The Problem of the Boundary between the Grenville and Temiskaming Provinces, Ontario. B.Sc. Laval	MP2	p.29

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages

GDIF FORM NO.9



Ministry of Natural Resources

Ontario

Hon. Michael Harris
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Deputy Minister

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 253

(Map **1** of **2**)

HUGEL TOWNSHIP

DISTRICT OF NIPISSING

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

EXPLORATION DATA FILE AREAS

Reference number is always inside work area outlined.

Ontario

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 253

(Map **1** of **2**)

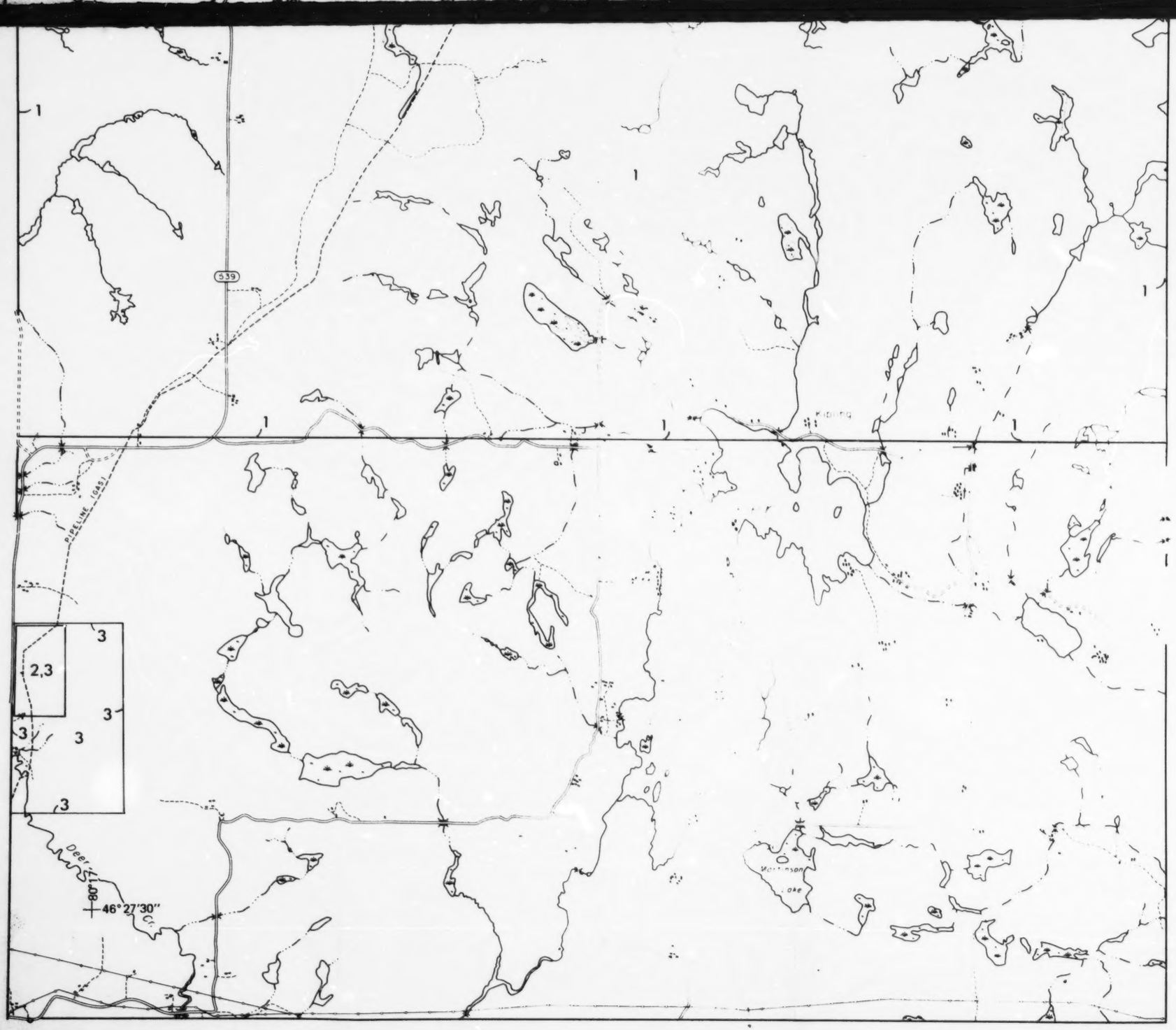
HUGEL TOWNSHIP

DISTRICT OF NIPISSING

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre



EXPLORATION DATA FILE AREAS

Reference number is always inside work area outlined. See listing in text pages.

Small area of exploration.

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

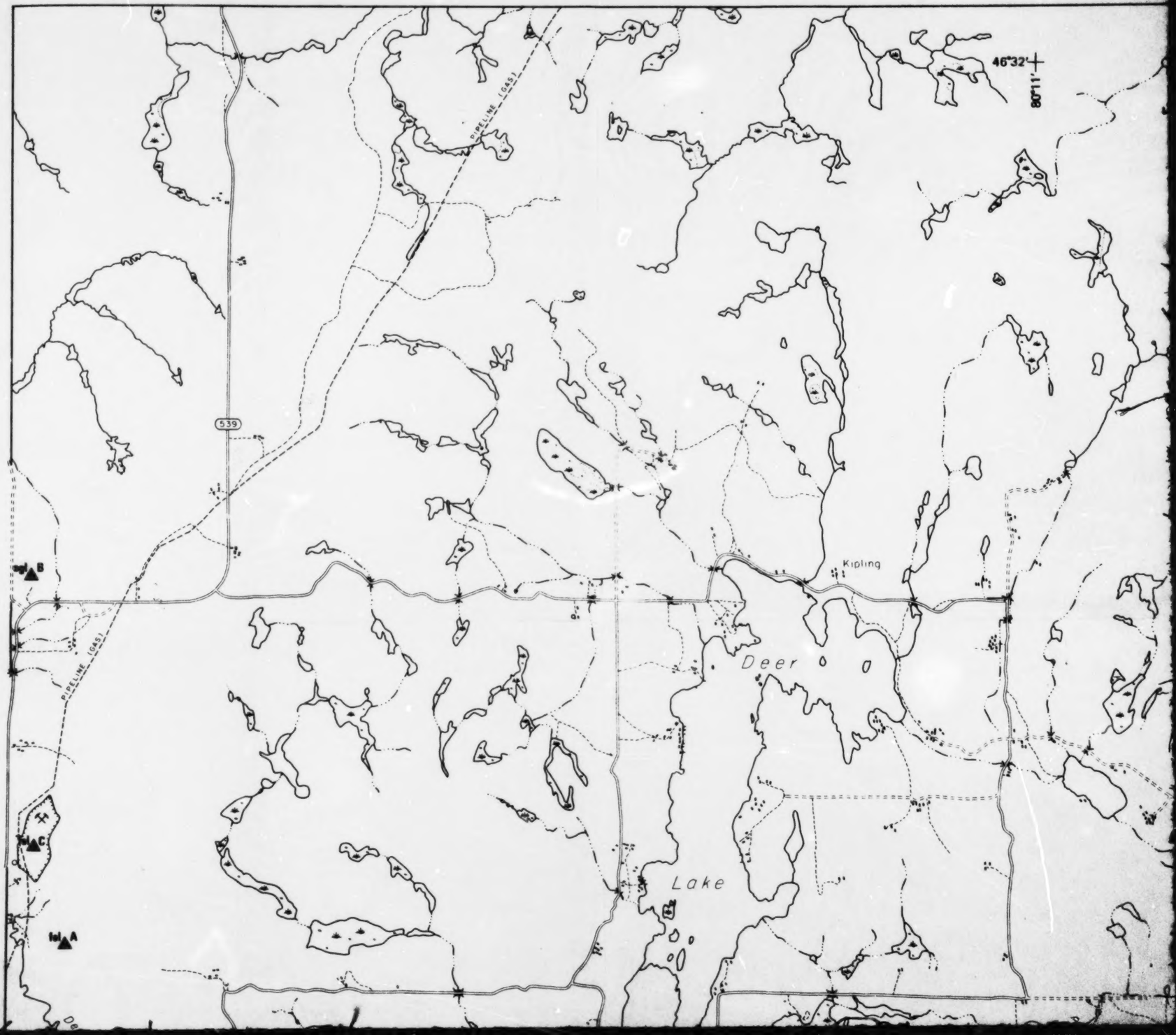
- ☐ Geochemical sample site, with reference number
- ☐ Area of geochemical sampling, with reference number
- ☐ Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

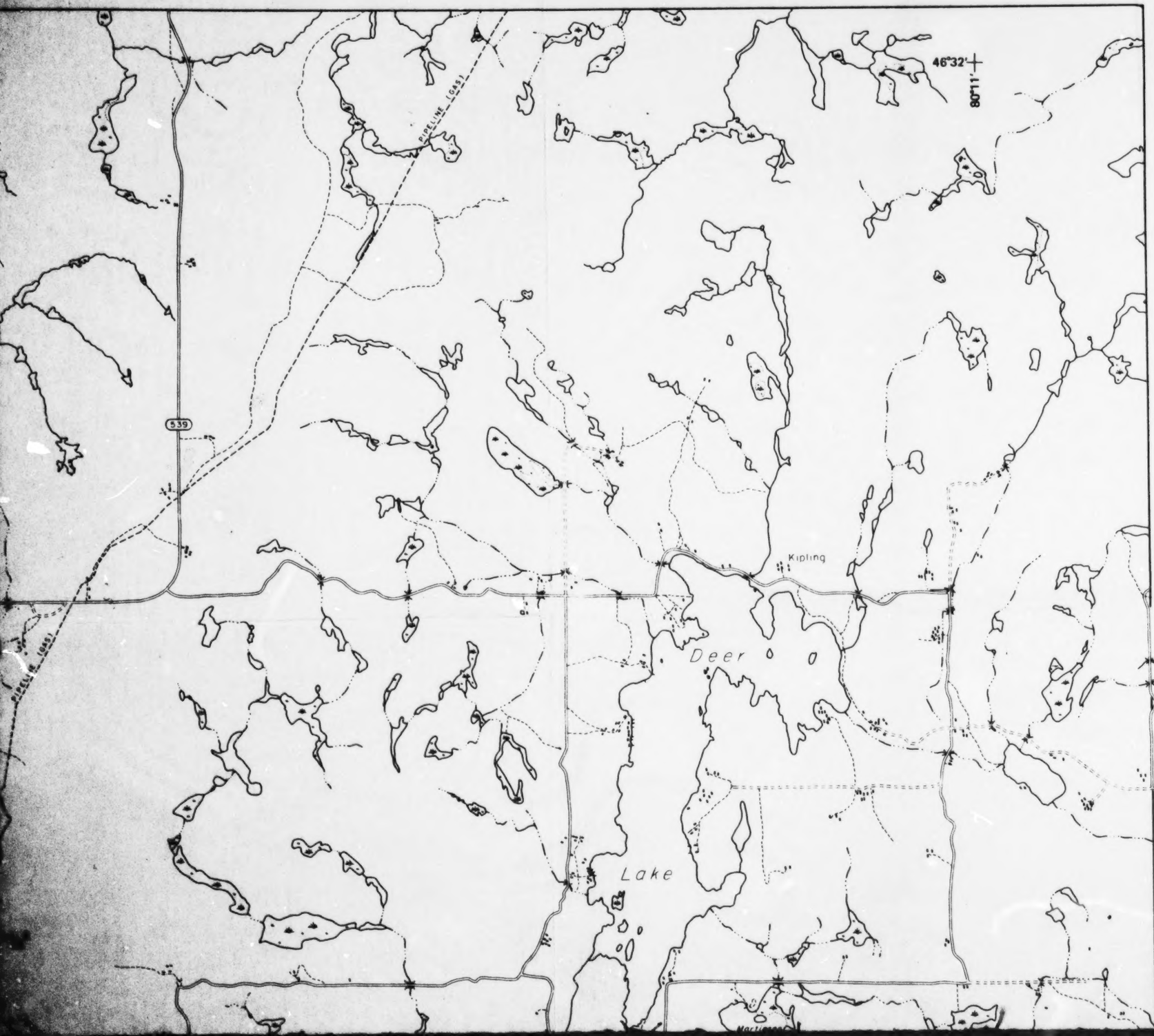
- ☐ AM — Airborne Magnetometer Anomaly
- ☐ Airborne Electromagnetometer Anomaly
  Length of anomaly along flight line
- ☐ Airborne Electromagnetometer Anomaly.
  Location of anomaly along flight line
- ☐ Airborne Electromagnetometer Anomaly
  Conductor Axis: definite, probable, possible
- ☐ ARA — Airborne Radiometric Anomaly
- ☐ M — Ground Magnetometer Anomaly
- ☐ VL — Ground Electromagnetometer Anomaly
  (VL - Vertical Loop; HL - Horizontal Loop;
  VLF - Very low freq; Turam; JEM -
  Crone EM - 16)
- ☐ RA — Ground Radiometric Anomaly
- ☐ IP — Induced Polarization Anomaly
- ☐ SP — Self Potential Anomaly
- ☐ AFMAG — Audio-frequency magnetometer anomaly
  (total intensity)
- ☐ R — Resistivity Anomaly
- ☐ GR — Gravity Anomaly

MISCELLANEOUS DATA

- ☐ Trenching, pit
- ☐ Adit
- ■ Open pit
- ■ Rock quarry
- ☐ Sand and/or gravel pit



ODM 2253



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ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 253

(Map 2 of 2)

HUGEL TOWNSHIP

DISTRICT OF NIPISSING

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP .

MINERAL OCCURRENCES

- Mineral occurrence at surface, with reference letter
- Mineral occurrence with shaft, depth given with reference letter
- Mineral occurrence reported but exact location uncertain, with reference letter
- Mineralized Float with reference letter

DRILL HOLES

- Location of single drill hole, with reference number
- Location of closely spaced group of drill holes, with reference number
- Drill hole, exact location uncertain, with reference number

Area of geochemical sampling, with reference number

Age dating material sampling site, with reference number

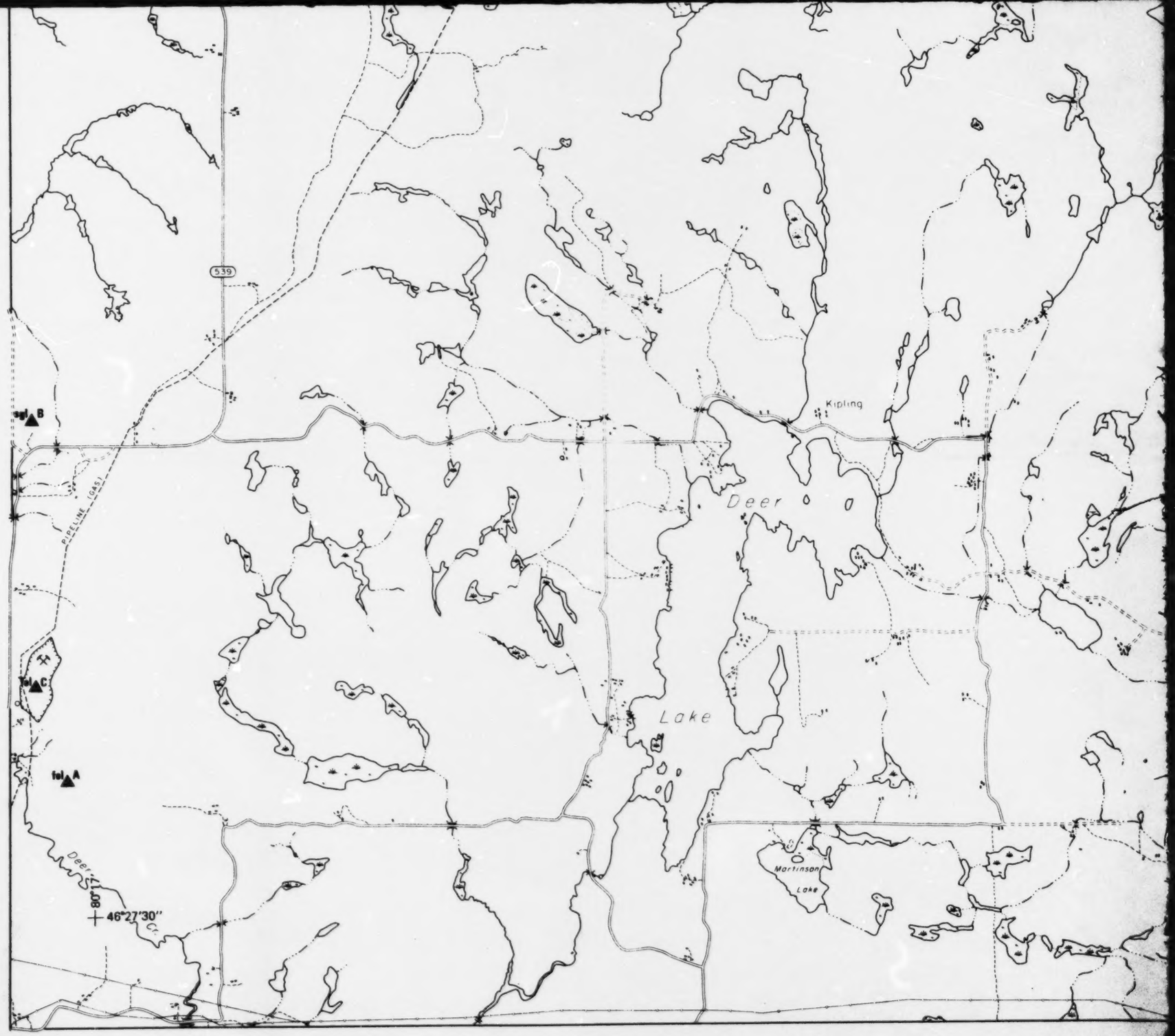
GEOPHYSICAL ANOMALIES

- AM — Airborne Magnetometer Anomaly
- Airborne Electromagnetometer Anomaly
  Length of anomaly along flight line
- Airborne Electromagnetometer Anomaly.
  Location of anomaly along flight line
- Airborne Electromagnetometer Anomaly
  Conductor Axis: definite, probable, possible
- ARA — Airborne Radiometric Anomaly
- M — Ground Magnetometer Anomaly
- VL — Ground Electromagnetometer Anomaly
  (VL - Vertical Loop; HL - Horizontal Loop;
  VLF - Very low freq; Turam; JEM -
  Crone EM - 16)
- RA — Ground Radiometric Anomaly
- IP — Induced Polarization Anomaly
- SP — Self Potential Anomaly
- AFMAG — Audio-frequency magnetometer anomaly
  (total intensity)
- R — Resistivity Anomaly
- GR — Gravity Anomaly

MISCELLANEOUS DATA

- Trenching, pit
- Adit
- Open pit
- Rock quarry
- Sand and/or gravel pit

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.



Ontario

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 253

(Map **2** of **2**)

HUGEL TOWNSHIP

DISTRICT OF NIPISSING

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP .

MINERAL OCCURRENCES

- ☒ cp A. — Mineral occurrence at surface, with reference letter
- ☐ Au A. 24' — Mineral occurrence with shaft, depth given with reference letter
- ☐ Ag ? A. — Mineral occurrence reported but exact location uncertain, with reference letter
- ☐ cp A. — Mineralized Float with reference letter

DRILL HOLES

- ☐ ●² — Location of single drill hole, with reference number
- ☐ ◉² — Location of closely spaced group of drill holes, with reference number
- ☐ (?)² — Drill hole, exact location uncertain, with reference number.
- ☐ ◡ — Property with underground drill holes in this general area, with reference number
- ☐ ○² — Property with drill holes which have not been plotted on map, with reference number
- ☐ ⊕² — Reverse Circulation Drill Hole; Churn drilling, with reference number

539

Kipling

Deer

Lake

Martinson Lake

PIPELINE (045)

46°27'30"

2742

ebl 253